Property &

**Event Type and Details** 

Deaths &

Date/Time

Location

knots (75 mph). Damage amount is estimated.

		ijuries Crop Dmg	
AKE MICHIGAN			
ALL INIOTHOPHY			
T WASHINGTON TO NORTH PT LT WI C	COUNTY 0.6 N PORT WASHINGTON [43	3.39, -87.87]	
	09/02/10 18:44 CST	0	Marine Thunderstorm Wind (MG 36 kt)
	09/02/10 18:44 CST	0	Source: C-MAN Station
HEBOYGAN TO PT WASHINGTON WI C	OUNTY 0.6 N PORT WASHINGTON [43	3.39, -87.87]	
	09/02/10 18:44 CST	0	Marine Thunderstorm Wind (MG 36 kt)
	09/02/10 18:44 CST	0	Source: C-MAN Station
IND PT LT WLTO WINTHROP HRR IL C	OUNTY 1.2 ENE KENOSHA [42.59, -87.	811	
MAD I I E I WI TO WINTING I TIBICIE O	09/02/10 20:00 CST	0	Marine Thunderstorm Wind (MG 34 kt)
	09/02/10 20:00 CST	0	Source: C-MAN Station
proken line of strong to severe thunde	rstorms affected the nearshore waters of	Lake Michigan during the	e early evening.
IND PT I T WI TO WINTHROP HRR II. C	OUNTY 1.2 ENE KENOSHA [42.59, -87.	811	
	09/21/10 17:20 CST	0	Marine Thunderstorm Wind (MG 39 kt)
	09/21/10 17:20 CST	0	Source: C-MAN Station
		-	2.
ISCONSIN, Southeast			
To contony ocuments			
	•		
	09/02/10 16:20 CST	0	Thunderstorm Wind (EG 56 kt)
	•	0	Thunderstorm Wind (EG 56 kt) Source: Law Enforcement
OWA COUNTY 5.0 N MINERAL PT [42] theriff deputies reported 5 to 6 large trees	09/02/10 16:20 CST	0	Source: Law Enforcement
DWA COUNTY 5.0 N MINERAL PT [42 heriff deputies reported 5 to 6 large trees inion Ridge.	09/02/10 16:20 CST 09/02/10 16:20 CST were blown down by strong thunderstorm 89.22], DEERFIELD [43.05, -89.07]	0 wind gusts estimated at 56	Source: Law Enforcement sknots (65 mph) north of Mineral Point on
OWA COUNTY 5.0 N MINERAL PT [42 heriff deputies reported 5 to 6 large trees nion Ridge.	09/02/10 16:20 CST 09/02/10 16:20 CST were blown down by strong thunderstorm 89.22], DEERFIELD [43.05, -89.07] 09/02/10 17:32 CST	0	Source: Law Enforcement s knots (65 mph) north of Mineral Point on Thunderstorm Wind (EG 56 kt)
OWA COUNTY 5.0 N MINERAL PT [42 heriff deputies reported 5 to 6 large trees nion Ridge.	09/02/10 16:20 CST 09/02/10 16:20 CST were blown down by strong thunderstorm 89.22], DEERFIELD [43.05, -89.07]	0 wind gusts estimated at 56	Source: Law Enforcement knots (65 mph) north of Mineral Point on
DWA COUNTY 5.0 N MINERAL PT [42] Theriff deputies reported 5 to 6 large trees union Ridge.  NANE COUNTY STOUGHTON [42.92,	09/02/10 16:20 CST 09/02/10 16:20 CST  were blown down by strong thunderstorm  89.22], DEERFIELD [43.05, -89.07] 09/02/10 17:35 CST 09/02/10 17:35 CST	0 wind gusts estimated at 56 1K 0	Source: Law Enforcement  s knots (65 mph) north of Mineral Point on  Thunderstorm Wind (EG 56 kt)  Source: Trained Spotter
heriff deputies reported 5 to 6 large trees nion Ridge.  ANE COUNTY STOUGHTON [42.92, trained spotter reported trees blown dow 3-foot diameter tree fell on a truck in Sto	09/02/10 16:20 CST 09/02/10 16:20 CST  were blown down by strong thunderstorm  89.22], DEERFIELD [43.05, -89.07] 09/02/10 17:32 CST 09/02/10 17:35 CST  on by strong thunderstorm wind gusts estimated.  3.08, -88.90], 2.4 E CAMBRIDGE ARPT [42	0 wind gusts estimated at 56  1K 0 ated at 56 knots (65 mph)	Source: Law Enforcement  s knots (65 mph) north of Mineral Point on  Thunderstorm Wind (EG 56 kt)  Source: Trained Spotter  along a path from Stoughton to Deerfield.
heriff deputies reported 5 to 6 large trees nion Ridge.  ANE COUNTY STOUGHTON [42.92, trained spotter reported trees blown dow 3-foot diameter tree fell on a truck in Sto	09/02/10 16:20 CST 09/02/10 16:20 CST  were blown down by strong thunderstorm  89.22], DEERFIELD [43.05, -89.07] 09/02/10 17:32 CST 09/02/10 17:35 CST  In by strong thunderstorm wind gusts estimated.  3.08, -88.90], 2.4 E CAMBRIDGE ARPT [4209/02/10 17:40 CST	0 wind gusts estimated at 56  1K 0 ated at 56 knots (65 mph)	Source: Law Enforcement  s knots (65 mph) north of Mineral Point on  Thunderstorm Wind (EG 56 kt) Source: Trained Spotter  along a path from Stoughton to Deerfield.  Thunderstorm Wind (EG 56 kt)
wa county 5.0 n mineral pt [42] heriff deputies reported 5 to 6 large trees hion Ridge.  ANE COUNTY STOUGHTON [42.92, trained spotter reported trees blown dow 3-foot diameter tree fell on a truck in Sto	09/02/10 16:20 CST 09/02/10 16:20 CST  were blown down by strong thunderstorm  89.22], DEERFIELD [43.05, -89.07] 09/02/10 17:32 CST 09/02/10 17:35 CST  on by strong thunderstorm wind gusts estimated.  3.08, -88.90], 2.4 E CAMBRIDGE ARPT [42	0 wind gusts estimated at 56  1K 0 ated at 56 knots (65 mph)	Source: Law Enforcement  s knots (65 mph) north of Mineral Point on  Thunderstorm Wind (EG 56 kt)  Source: Trained Spotter  along a path from Stoughton to Deerfield.
heriff deputies reported 5 to 6 large trees nion Ridge.  ANE COUNTY STOUGHTON [42.92, trained spotter reported trees blown dow 3-foot diameter tree fell on a truck in Sto	09/02/10 16:20 CST 09/02/10 16:20 CST  were blown down by strong thunderstorm  89.22], DEERFIELD [43.05, -89.07] 09/02/10 17:32 CST 09/02/10 17:35 CST  In by strong thunderstorm wind gusts estimated.  3.08, -88.90], 2.4 E CAMBRIDGE ARPT [4209/02/10 17:40 CST	0 wind gusts estimated at 56  1K 0 ated at 56 knots (65 mph)  2.98, -88.95] 0 0	Source: Law Enforcement  s knots (65 mph) north of Mineral Point on  Thunderstorm Wind (EG 56 kt) Source: Trained Spotter  along a path from Stoughton to Deerfield.  Thunderstorm Wind (EG 56 kt) Source: Law Enforcement
heriff deputies reported 5 to 6 large trees nion Ridge.  ANE COUNTY STOUGHTON [42.92, trained spotter reported trees blown dow 3-foot diameter tree fell on a truck in Sto  EFFERSON COUNTY LAKE MILLS [4: theriff deputies reported trees blown down pwnship.	09/02/10 16:20 CST 09/02/10 16:20 CST  were blown down by strong thunderstorm  89.22], DEERFIELD [43.05, -89.07] 09/02/10 17:32 CST 09/02/10 17:35 CST  In by strong thunderstorm wind gusts estimated.  3.08, -88.90], 2.4 E CAMBRIDGE ARPT [42 09/02/10 17:40 CST 09/02/10 17:45 CST	0 wind gusts estimated at 56  1K 0 ated at 56 knots (65 mph)  2.98, -88.95] 0 0	Source: Law Enforcement  s knots (65 mph) north of Mineral Point on  Thunderstorm Wind (EG 56 kt) Source: Trained Spotter  along a path from Stoughton to Deerfield.  Thunderstorm Wind (EG 56 kt) Source: Law Enforcement
wa county 5.0 n mineral PT [42]  deriff deputies reported 5 to 6 large trees alon Ridge.  ANE COUNTY STOUGHTON [42.92,	09/02/10 16:20 CST 09/02/10 16:20 CST  were blown down by strong thunderstorm  89.22], DEERFIELD [43.05, -89.07] 09/02/10 17:32 CST 09/02/10 17:35 CST  In by strong thunderstorm wind gusts estimated.  3.08, -88.90], 2.4 E CAMBRIDGE ARPT [42 09/02/10 17:40 CST 09/02/10 17:45 CST	0 wind gusts estimated at 56  1K 0 ated at 56 knots (65 mph)  2.98, -88.95] 0 0	Source: Law Enforcement  s knots (65 mph) north of Mineral Point on  Thunderstorm Wind (EG 56 kt) Source: Trained Spotter  along a path from Stoughton to Deerfield.  Thunderstorm Wind (EG 56 kt) Source: Law Enforcement
heriff deputies reported 5 to 6 large trees nion Ridge.  ANE COUNTY STOUGHTON [42.92,  trained spotter reported trees blown dow 3-foot diameter tree fell on a truck in Sto  EFFERSON COUNTY LAKE MILLS [4:  heriff deputies reported trees blown down ownship.	09/02/10 16:20 CST 09/02/10 16:20 CST  were blown down by strong thunderstorm  89.22], DEERFIELD [43.05, -89.07] 09/02/10 17:32 CST 09/02/10 17:35 CST  In by strong thunderstorm wind gusts estimated.  3.08, -88.90], 2.4 E CAMBRIDGE ARPT [42 09/02/10 17:40 CST 09/02/10 17:45 CST  In by strong thunderstorm wind gusts estimated.	0 wind gusts estimated at 56  1K 0 ated at 56 knots (65 mph)  2.98, -88.95] 0 0 ated at 56 knots (65 mph) a	Source: Law Enforcement  s knots (65 mph) north of Mineral Point on  Thunderstorm Wind (EG 56 kt) Source: Trained Spotter  along a path from Stoughton to Deerfield.  Thunderstorm Wind (EG 56 kt) Source: Law Enforcement  along a line from Lake Mills to Oakland
COWA COUNTY 5.0 N MINERAL PT [42] Sheriff deputies reported 5 to 6 large trees Inion Ridge.  PANE COUNTY STOUGHTON [42.92,  A trained spotter reported trees blown down 3-foot diameter tree fell on a truck in Sto  EFFERSON COUNTY LAKE MILLS [4:  Sheriff deputies reported trees blown down ownship.  EFFERSON COUNTY 1.0 N JEFFERSON COUNTY 1.0 N JEFFE	09/02/10 16:20 CST 09/02/10 16:20 CST  were blown down by strong thunderstorm  89.22], DEERFIELD [43.05, -89.07] 09/02/10 17:32 CST 09/02/10 17:35 CST  In by strong thunderstorm wind gusts estimated.  3.08, -88.90], 2.4 E CAMBRIDGE ARPT [42 09/02/10 17:40 CST 09/02/10 17:45 CST  In by strong thunderstorm wind gusts estimated.	0 wind gusts estimated at 56  1K 0 ated at 56 knots (65 mph) 0 0 ated at 56 knots (65 mph) a 0 0 0 0	Source: Law Enforcement  s knots (65 mph) north of Mineral Point on  Thunderstorm Wind (EG 56 kt) Source: Trained Spotter  along a path from Stoughton to Deerfield.  Thunderstorm Wind (EG 56 kt) Source: Law Enforcement  along a line from Lake Mills to Oakland  Thunderstorm Wind (EG 56 kt)
COWA COUNTY 5.0 N MINERAL PT [42] Sheriff deputies reported 5 to 6 large trees Union Ridge.  COUNTY STOUGHTON [42.92, A trained spotter reported trees blown down A 3-foot diameter tree fell on a truck in Sto DEFFERSON COUNTY LAKE MILLS [4: Sheriff deputies reported trees blown down Township.  DEFFERSON COUNTY 1.0 N JEFFERSON A National Weather Service employee reported	09/02/10 16:20 CST 09/02/10 16:20 CST  were blown down by strong thunderstorm  89.22], DEERFIELD [43.05, -89.07] 09/02/10 17:32 CST 09/02/10 17:35 CST  In by strong thunderstorm wind gusts estimated.  3.08, -88.90], 2.4 E CAMBRIDGE ARPT [42 09/02/10 17:40 CST 09/02/10 17:45 CST  In by strong thunderstorm wind gusts estimated.  ON [43.01, -88.80] 09/02/10 17:49 CST 09/02/10 17:49 CST 09/02/10 17:49 CST	0 wind gusts estimated at 56  1K 0 ated at 56 knots (65 mph) 0 0 ated at 56 knots (65 mph) a 0 0 0 at 56 knots (65 mph).	Source: Law Enforcement  s knots (65 mph) north of Mineral Point on  Thunderstorm Wind (EG 56 kt) Source: Trained Spotter  along a path from Stoughton to Deerfield.  Thunderstorm Wind (EG 56 kt) Source: Law Enforcement  along a line from Lake Mills to Oakland  Thunderstorm Wind (EG 56 kt)
COUNTY 5.0 N MINERAL PT [42] Sheriff deputies reported 5 to 6 large trees Inion Ridge.  PANE COUNTY STOUGHTON [42.92,  A trained spotter reported trees blown down 3-foot diameter tree fell on a truck in Sto  EFFERSON COUNTY LAKE MILLS [4:  Sheriff deputies reported trees blown down fownship.  EFFERSON COUNTY 1.0 N JEFFERSON COUNTY 1.0 N JEFFERSON NATIONAL Weather Service employee reported trees blown down fownship.	09/02/10 16:20 CST 09/02/10 16:20 CST  were blown down by strong thunderstorm  89.22], DEERFIELD [43.05, -89.07] 09/02/10 17:32 CST 09/02/10 17:35 CST  In by strong thunderstorm wind gusts estimated.  3.08, -88.90], 2.4 E CAMBRIDGE ARPT [42 09/02/10 17:40 CST 09/02/10 17:45 CST  In by strong thunderstorm wind gusts estimated.	0 wind gusts estimated at 56  1K 0 ated at 56 knots (65 mph) 0 0 ated at 56 knots (65 mph) a 0 0 0 at 56 knots (65 mph).	Source: Law Enforcement  s knots (65 mph) north of Mineral Point on  Thunderstorm Wind (EG 56 kt) Source: Trained Spotter  along a path from Stoughton to Deerfield.  Thunderstorm Wind (EG 56 kt) Source: Law Enforcement  along a line from Lake Mills to Oakland  Thunderstorm Wind (EG 56 kt)

Page 1 of 6 Printed on: 01/04/2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
NAUKESHA COUNTY 1.0 SW OCONOM	OWOC [43.11, -88.49]			
	09/02/10 18:02 CST		0	Hail (0.88 in)
	09/02/10 18:02 CST		0	Source: NWS Employee
WAUKESHA COUNTY NASHOTAH [43.1	<b>0, -88.40], SUSSEX [43.13, -88.22]</b> 09/02/10 18:15 CST		0	Thunderstorm Wind (EG 70 kt)
	09/02/10 18:19 CST		0	Source: Law Enforcement
and the second of the second o				
aw enforcement officials reported trees and	a power lines blown down by thunder	storm wind gust	s esumated at 70 k	inois (61 mpn).
NAUKESHA COUNTY OCONOMOWOC	[43.12, -88.48]			
	09/02/10 18:15 CST		0	Hail (0.88 in)
	09/02/10 18:15 CST		0	Source: Trained Spotter
TALIKEE COUNTY SALIKVII I E 142 20	-87 931			
OZAUKEE COUNTY SAUKVILLE [43.38,	-87.93] 09/02/10 18:35 CST		0	Thunderstorm Wind (EG 65 kt)
	09/02/10 18:35 CST		0	Source: Emergency Manager
				<b>,</b> , ,
The Ozaukee County Emergency Manager rale and the gusty winds, with one hom		-	ts estimated at 65	knots (75 mph). Two houses had siding
side of Madison, Verona and Fitchburg in I meet in DeForest, also in Dane County. Th DODGE COUNTY 1.0 NE BEAVER DAM	nere were also a few reports of near			Hail (1.25 in)
	09/06/10 05:28 CST		0	Source: Law Enforcement
heriff deputies reported half dollar-sized ha	il northeast of Beaver Dam.			
EFFERSON COUNTY 3.0 NE CONCORT	D [43.10, -88.56]			
	09/06/10 06:17 CST		0	Hail (0.88 in)
	09/06/10 06:17 CST		0	Source: NWS Employee
MILWAUKEE COUNTY 0.6 NW BROWN	DEER [43 18 -87 98]			
	09/06/10 06:30 CST		3K	Lightning
	09/06/10 06:30 CST		0	Source: Emergency Manager
Damage to an antenna and minor electrical of	damage due to a lightning strike to a	residence was i	eported by the cou	inty emergency manager.
OODGE COUNTY WAUPUN [43.63, -88.7	31			
2020E 000HTT WAUFUN [43.03, -00./	09/06/10 06:45 CST		0	Hail (1.00 in)
	09/06/10 06:45 CST		0	Source: Trained Spotter
A trained spotter reported quarter-sized hail	in Waupun.			
NAUKESHA COUNTY 1.0 S DOWNTOW		E DOWNTOWN	=	
	09/06/10 07:25 CST		0	Hail (1.75 in)
	09/06/10 07:30 CST		0	Source: Amateur Radio
Amateur radio operators and the public repo Waukesha, through the city, to the southeas		eter to 1.75 inch	es in diameter alon	ng a path from south of the city of
WAUKESHA COUNTY 1.0 NW DOWNTO	WN WAUKESHA [43.03, -88.23]			
	09/06/10 07:26 CST		•	Hail (0.75 in)

09/06/10 07:26 CST

09/06/10 07:26 CST

Page 2 of 6 Printed on: 01/04/2011

Source: Amateur Radio

Hail (0.75 in)

0

0

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
MII WALIKEE COUNTY 3 0 S I	DOWNTOWN MILWAUKEE [42.99, -87.97]			
INIETITIONEE GOONT TO GOOD	09/06/10 07:43 CST		0	Hail (0.88 in)
	09/06/10 07:43 CST		0	Source: Trained Spotter
MILWAUKEE COUNTY 1.0 S V	VEST ALLIS [42.99, -87.97]			
	09/06/10 07:45 CST		0	Hail (1.00 in)
	09/06/10 07:45 CST		0	Source: Public
The public reported 1 inch-diamet	er hail south of the city of West Allis.			
MARQUETTE COUNTY 5.0 S	MONTELLO [43.73, -89.32]			
	09/06/10 08:12 CST		0	Hail (0.75 in)
	09/06/10 08:12 CST		0	Source: Trained Spotter
Early-morning, elevated thunder	storms developed on the nose of a 40-45 ki	not 850 mb jet und	der an expansive a	area of upper level
= -	vel warm air advection. The thunderstorms	<del>-</del>	=	
<u>-</u>	ern Illinois, as the strong low level jet impi	•		
	il, with larger stones ranging from 1 inch to	-		•

(WI-Z051) FOND DU LAC, (WI-Z052) SHEBOYGAN, (WI-Z058) DODGE, (WI-Z059) WASHINGTON, (WI-Z062) IOWA, (WI-Z063) DANE, (WI-Z065) WAUKESHA, (WI-Z066) MILWAUKEE, (WI-Z067) LAFAYETTE, (WI-Z068) GREEN, (WI-Z069) ROCK, (WI-Z070) WALWORTH, (WI-Z071) RACINE, (WI-Z072) KENOSHA

09/07/10 09:00 CST 1 80K Strong Wind (MAX 48 kt) 09/07/10 17:00 CST 0

Direct Fatalities: M80OU

A closed mid to upper-level low tracking across the northern U.S. took an associated surface low from the Dakotas, to Lake Superior and into southern Canada. The tight pressure gradient around this system produced strong winds across southern Wisconsin during the day. Wind gusts reached 40 to 50 mph (35 to 44 knots) in many locations. An 80 year-old Wauwatosa (Milwaukee County) man was killed in his back yard when a tree limb, estimated to weigh 1000 pounds, struck him after being blown down by the strong winds. The limb knocked the man's garage off its foundation. The highest measured wind gust reported in southern Wisconsin was 55 mph (48 knots) measured just southeast of downtown Pewaukee in Waukesha County. There were scattered reports of downed power lines due to broken tree branches falling on wires.

DANE COUNTY	4 0 SW CROSS	PI AINS 143 08	-89 691 1 0 FNF	MONONA [43 08	-89 301

09/18/10 02:35 CST 1M Hail (2.00 in)

09/18/10 02:55 CST 0 Source: Trained Spotter

Trained spotters reported a 1 to 2 mile-wide swath of damage from hail showers that extended from north of Dodgeville, near Cross Plains, to just east northeast of Monona, dissipating near Interstate 90. Hundreds of vehicles were damaged; many homes had siding, window and screen damage; many trees were stripped of their leaves.

#### WAUKESHA COUNTY --- 1.1 ESE MARCY [43.10, -88.11]

09/18/10 04:15 CST 0.10M Lightning

09/18/10 04:15 CST 0 Source: Newspaper

Lightning struck a house in Brookfield causing a fire in the attic. The lightning strike blew holes in the chimney and the roof of the house. Residents in the home at the time of the strike had escaped by the time firefighters arrived on the scene.

A strong cold front was slowly sagging through southern Wisconsin during the early morning hours of September 18th. Mid-level warm advection and frontogenesis ahead of a short wave moving through the region created forcing and elevated instability, as well as strong effective deep layer shear of 40 to 50 knots, that generated elevated thunderstorms behind the surface cold front. The thunderstorms produced hail showers, turning the ground white, with hail stones up to 1 inch in diameter.

### GREEN COUNTY --- 5.0 SW BRODHEAD [42.57, -89.44], 4.3 S BRODHEAD [42.56, -89.35]

09/21/10 15:00 CST 0 Hail (1.00 in) 09/21/10 15:08 CST 0 Source: Public

ROCK COUNTY --- 1.0 NNE PRAIRIE AIRPORT [42.56, -89.01], 1.3 NE PRAIRIE AIRPORT [42.56, -89.00]

Page 3 of 6 Printed on: 01/04/2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	09/21/10 15:00 CST		1K	Tornado (EF0, L: 0.42 mi , W: 30 yd)
	09/21/10 15:01 CST		0	Source: Amateur Radio
An isolated thunderstorm cell ahead of a broken lin Midwest Severe Storm Tracking and Response Ce (KJVL). The tornado path began just southeast of dissipating east of Franklin Street. The tornado broknocked over, a 20-foot antenna that had been sta 70 to 75 mph. The exact start location is Lat. 42.56 Average path width was 15 yards. The damage and	onter verified this brief, EF0 tor the intersection of CTH G and toke off 6 to 8 inch tree limbs a bilized by guy wires. The EF 16200 Lon89.01098. The exa	rnado around 4.2 i I Walton Lane, an nd twisted and br rating was determ	miles southeast of d moved east-nort oke off shrubs at th ined by DI27 (TH)	Southern Wisconsin Regional Airport heast less than 1/2 mile before ne ground. It also bent, and then DOD2, with estimated wind speeds of
ROCK COUNTY 3.0 N BELOIT [42.56, -89.03]	09/21/10 15:25 CST		0	Thunderstorm Wind (EC 52 kt)
	09/21/10 15:25 CST 09/21/10 15:25 CST		0	Thunderstorm Wind (EG 52 kt) Source: Law Enforcement
Law enforcement officials reported several trees we	ere blown down by thundersto	orm wind gusts es	timated at 52 knots	s (60 mph).
ROCK COUNTY (JVL)ROCK CO ARPT JA [42.6	62, -89.03]			
	09/21/10 15:30 CST		0	Hail (0.75 in)
	09/21/10 15:30 CST		0	Source: Law Enforcement
ROCK COUNTY 5.0 N BELOIT [42.59, -89.03]				
	09/21/10 15:34 CST		0	Hail (0.75 in)
	09/21/10 15:34 CST		0	Source: Law Enforcement
WALWORTH COUNTY ALLEN GROVE [42.58,	-88.771			
	09/21/10 15:50 CST		0	Hail (1.00 in)
	09/21/10 15:50 CST		0	Source: Law Enforcement
WALWORTH COUNTY DARIEN [42.60, -88.70]				
WALVORTH GOOKIT DARLER [42.00, -00.70]	09/21/10 15:57 CST		0	Hail (0.88 in)
	09/21/10 15:57 CST		0	Source: Amateur Radio
WALWORTH COUNTY 2.0 WSW DELAVAN LA	KE [42.6488.64]			
	09/21/10 15:58 CST		0	Hail (0.88 in)
	09/21/10 15:58 CST		0	Source: Trained Spotter
WALWORTH COUNTY 2.0 NNE EAST TROY [4	2.8188.381			
The second of th	09/21/10 16:09 CST		0	Hail (1.00 in)
	09/21/10 16:09 CST		0	Source: Trained Spotter
RACINE COUNTY ROCHESTER [42.73, -88.22]				
NACINE COUNTY NOCILECTEN [42.73, -00.22]	09/21/10 16:32 CST		0	Hail (0.75 in)
	09/21/10 16:32 CST		0	Source: Law Enforcement
MILWAUKEE COUNTY 1.0 SE FRANKLIN [42.8	688.071			
1.0 OL I MAINLIN [42.0	09/21/10 16:33 CST		0	Hail (1.00 in)
	09/21/10 16:33 CST		0	Source: Amateur Radio
KENOSHA COUNTY BRISTOL [42.55, -88.05]				
NEROONA COURT I BRISTOL [42.33, -00.03]	09/21/10 16:40 CST		0	Hail (1.75 in)
	09/21/10 16:40 CST		0	Source: Law Enforcement
RACINE COUNTY 2.0 SSE WIND LAKE [42.80,	_88 131			
100111 000111 2.0 35E WIND LAKE [42.00,	09/21/10 16:40 CST		0	Thunderstorm Wind (EG 52 kt)
	00/04/40 46:40 CCT		0	Course Law Enforcement

Law enforcement reported a thunderstorm wind gust estimated at 52 knots (60 mph).

09/21/10 16:40 CST

Page 4 of 6 Printed on: 01/04/2011

Source: Law Enforcement

0

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
RACINE COUNTY 4.0 W CALEDONIA [42.8	0, -88.01]			
	09/21/10 16:45 CST		0	Thunderstorm Wind (EG 52 kt)
	09/21/10 16:45 CST		0	Source: Law Enforcement
RACINE COUNTY 4.0 W CALEDONIA [42.8	•			
	09/21/10 16:47 CST		0	Hail (1.00 in)
	09/21/10 16:47 CST		0	Source: Law Enforcement
KENOSHA COUNTY 2.0 SSW SILVER LAK			0	Source: Law Enforcement
KENOSHA COUNTY 2.0 SSW SILVER LAK			0	Source: Law Enforcement  Thunderstorm Wind (EG 52 kt)

Law enforcement officials reported several trees were blown down by thunderstorm wind gusts estimated at 52 knots (60 mph).

A cold front moving through the region was the focus for development of a broken line of thunderstorms ahead of the front during the afternoon and evening. The combination of ascent with a short wave impulse passing over the region, daytime heating, low-level moisture inflow on a 40 knot west southwest low-level jet, and steep low to mid-level lapse rates produced severe thunderstorms with large hail and damaging wind gusts. Additionally, the storms produced a brief, EF0 tornado in Rock County, southeast of Janesville.

(WI-Z066) MILWAUKEE, (WI-Z071) RACINE						
	09/24/10 01:00 CST	10K	Strong Wind (MAX 47 kt)			
	09/24/10 05:00 CST	0				

A tight pressure gradient set up over Wisconsin as strong low pressure, located over western Nebraska on the morning of September 23rd, moved northeast to central Lake Superior on the morning of September 24th. Scattered showers that formed ahead of a trailing cold front in the early morning hours transferred momentum down to the surface from a 50 to 55 knot low level jet, located between 1,000 feet and 2,000 feet above ground level. This produced southwest wind gusts between 39 and 48 knots (45 mph and 55 mph) at a few locations in far Southeast Wisconsin. There were scattered reports of downed power lines due to broken tree branches falling on wires.

(WI-Z052) SHEBOYGAN, (WI-Z059) WASHINGTON, (WI-Z060) OZAUKEE, (WI-Z065) WAUKESHA, (WI-Z066) MILWAUKEE, (WI-Z068) GREEN, (WI-Z070) WALWORTH, (WI-Z071) RACINE, (WI-Z072) KENOSHA

09/24/10 11:00 CST 13K Strong Wind (MAX 42 kt) 09/24/10 16:00 CST 0

A strong surface pressure gradient around a departing deep low pressure system moving from central Lake Superior to southwest Quebec, Canada produced westerly wind gusts between 39 and 43 knots (45 and 50 mph) during the afternoon hours, mainly over Southeast Wisconsin. There were scattered reports of downed power lines due to broken tree branches falling on wires.

COLUMBIA COUNTY --- 0.2 SSW WISCONSIN DELLS [43.63, -89.77], 0.5 NNE PORTAGE [43.56, -89.45], 2.9 SSE PORTAGE [43.51, -89.43], 2.0 S WISCONSIN DELLS [43.60, -89.76]

 09/24/10 18:00 CST
 1.23M
 Flood (due to Heavy Rain)

 09/30/10 05:00 CST
 0.20M
 Source: Official NWS Observations

The river at the gage in Portage was in flood from the evening of September 24th through the morning of September 30th, and reached a record flood level of 20.66 feet during the evening of Monday, September 27th. The old record crest at Portage was 20.50 feet on 09/14/1938. The flood waters threatened to break through a century-old earthen dike in the Civil Township of Caledonia. The waters seeped through the dike, but the dike did not fail. The potential levee failures caused voluntary evacuations and road closures along the river from the Dells to Portage. As it turned out, dozens of homes in the Blackhawk Park area just southeast of Portage were cut off when water depths reached a foot on the only road into the area. The Columbia County Emergency Management Director provided the following loss estimates: \$1 M for seasonal and full-time residental homes, \$100,000 for patching and reinforcing part of a 14-mile earthen berm/dike, \$50,000 for gravel shoulder washouts, \$75,000 to a wastwater treatment plant, and \$200,000 to bottomland crops. It was postulated that damage was limited due to the fact that the flood waters rose slowly which reduced the erosional power of water. The EM Director also noted that the Wisconsin River levels in Portage were about a foot higher than that experienced in the Great Flood of 1993, while at Wisconsin Dells the 2010 level was about a foot lower than that experienced in 1993.

Even though heavy rains didn't fall in the surrounding area, record river levels occurred on the Wisconsin River near Portage. A potent, early-fall, storm brought waves of heavy rain to western and central Wisconsin, well upstream from Portage, beginning late on Wednesday, September 22nd and continuing into early Friday, September 24th. Two-day rainfall totals of 4 to 8 inches across the Wisconsin River basin over those parts of Wisconsin resulted in flooding in the river basin from Sauk County near the Wisconsin Dells downstream through Columbia County.

Page 5 of 6 Printed on: 01/04/2011

Location Date/Time Deaths & Property & Event Type and Details Injuries Crop Dmg

Page 6 of 6 Printed on: 01/04/2011